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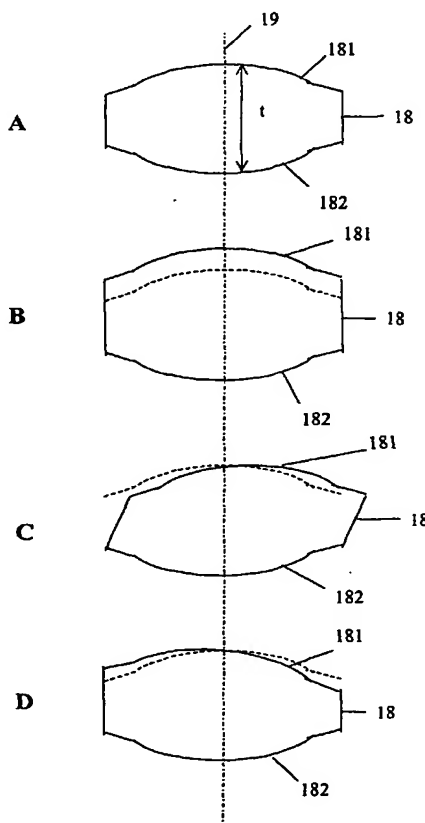
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(54) Title: SCANNING DEVICE INCLUDING AN OBJECTIVE SYSTEM FORMED OF A SINGLE MATERIAL

$$0.8 < \frac{t}{1.18 - 2.28 \left[FWD + \frac{t_d}{n_d} \right]} < 1.2 \quad (I)$$



(57) Abstract: An optical scanning device (1) for scanning an information layer (4) of an optical record carrier (2), the device (1) comprising a radiation source (11) for generating a radiation beam (12, 15, 20) and an objective system (18) for converging the radiation beam on the information layer, the information layer being covered by a transparent layer (3) of thickness t_d and refractive index n_d . The objective system comprises a lens formed of a single material. The lens satisfies the condition: Formula (I), where t is the thickness of the lens, FWD is the free working distance between the lens (18) and the carrier (2), where t , t_d and FWD are expressed in millimetres, and where $FWD + t_d/n_d < 0.51$.

WO 2004/019323 A2